

Title (en)
BALLOON GUIDE CATHETER WITH THERMALLY EXPANDABLE MATERIAL

Title (de)
BALLONFÜHRUNGSKATHETER MIT THERMISCH EXPANDIERBAREM MATERIAL

Title (fr)
CATHÉTER DE GUIDAGE À BALLONNET COMPORTANT UN MATÉRIAU THERMIQUEMENT EXPANSIBLE

Publication
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Application
EP 20173413 A 20200507

Priority

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- US 201962845683 P 20190509
- US 201962845747 P 20190509
- US 201916601202 A 20191014

Abstract (en)
A balloon catheter including a heating element (120) disposed about a portion of an outer surface of a catheter shaft (100); a balloon (115) mounted about the outer surface of the catheter shaft to coincide with the heating element; and thermally expandable material (125) disposed inside the mounted balloon. The balloon catheter eliminating the need for pressurized liquid inflation media to be dispensed into/expelled from the balloon in order to inflate/deflate, respectively, the balloon.

IPC 8 full level
A61M 25/10 (2013.01); **A61B 17/12** (2006.01); **A61M 29/02** (2006.01)

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Citation (search report)

- [XAY] US 2018333192 A1 20181122 - SLIWA JOHN W [US], et al
- [XAY] US 5800421 A 19980901 - LEMELSON JEROME H [US]
- [A] WO 2007139799 A2 20071206 - MAYO FOUNDATION [US], et al

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